

# Fine Particulate Matter

**P**M<sub>2.5</sub> is primarily generated from combustion sources. It can be emitted directly as particulate, or it can be formed from gases that are emitted, which combine or condense in the atmosphere to make particles. In addition to the current ambient monitoring, the department plans to conduct sampling that could be analyzed for specific compounds or species of compounds. This would help determine what types of sources are most responsible for PM<sub>2.5</sub> levels in different parts of the state.

It will take several years for the PM<sub>2.5</sub> standard to be put into practice and reached. One of the reasons is because a new monitoring system for this type of pollution had to be created. Based on EPA guidance, Missouri established a network of 37 monitors at 25 sites, including speciation and continuous monitors. Because several sites do not have a complete year for 1999, including Blair Street, the highest site, Missouri and EPA may decide to use the 2000 through 2002 years to make the **attainment** or nonattainment designation.

## 1999 - 2002 PM<sub>2.5</sub> Data Summary

24-hr Std = 65 mg/m<sup>3</sup>, 98th percentile Annual Mean Std = 15.0 mg/m<sup>3</sup>

St. Louis	Maximum				Annual Mean				99-01 Mean	00-02 Mean
	1999	2000	2001	2002	1999	2000	2001	2002		
West Alton	43.7	35.2	42.0	40.3	14.4	14.9	14.8	14.2	14.7	14.6
Margaretta	49.4	41.8	48.4	73.5	15.3	15.0	14.1	14.3	14.8	14.5
Blair Street	64.5	45.2	52.5	56.6	17.3*	16.4	15.2	15.4	16.3	15.7
South Broadway	-	42.3	52.5	67.2	-	15.8*	14.8	15.3	15.3	15.3
Mound Street	29.0	43.3	51.3	54.7	15.8*	16.0	15.4	15.6	15.7**	15.7**
Ferguson	46.9	37.7	36.1	39.7	14.6	14.3	13.4	13.7	14.1	13.9
Clayton	46.7	51.0	36.0	38.7	15.2	14.8	13.8	14.6	14.6	14.4
Sunset Hills	-	-	28.1	40.3	-	-	12.1*	13.0	12.1	12.6
Arnold	46.5	34.8	36.8	67.7	15.2	14.7	14.5	15.1	14.8	14.8

Kansas City										
Liberty	28.9	32.8	32.1	37.5	11.2	11.1	12.2	12.3	11.5	11.9
North Kansas City	37.3	39.5	43.5	38.5	12.2	13.1	13.0	12.7	12.8	12.9
Sugar Creek	36.2	37.3	39.4	40.3	11.8	12.6	12.6	12.4	12.3	12.5
Locust	34.9	41.9	37.2	38.4	14.0	13.4	14.2	14.0	13.9	13.9
Main-Plaza	-	40.4	35.8	31.7	-	11.3*	13.0	13.3	12.2	12.5
Richards-Gebaur	30.1	-	-	-	11.6	-	-	-	-	-
RG- South	-	40.9	34.5	30.7	-	10.9	11.4	11.7	11.3	11.3

Outstate										
El Dorado Springs	31.2	37.3	26.5	31.7	11.3	11.5	11.6	11.8	11.5	11.6
Mark Twain State Park	38.9	34.5	33.7	30.7	11.1	11.0	11.2	11.4	11.1	11.2
Ste. Genevieve	42.1	37.0	34.5	44.2	13.8	15.2	13.7	13.7	14.2	14.2
SMSU	35.0	42.7	31.2	35.3	12.2	12.3	12.2	12.7	12.2	12.4
St. Joseph Museum	30.8	31.9	35.4	43.1	12.5	11.8	12.9	13.0	12.4	12.6

\*Less than one full year of data